

New U.S. Patent Application
Docket No. 32860-000625/US

Abstract of the Disclosure

~~X-ray detector comprising a scintillator with photosensor coating, and production process~~

~~The invention relates to a~~ An X-ray detector ~~is~~ (1) for a CT device ~~and includes~~ (13) having a phosphor layer (3) for generating electromagnetic radiation as a function of the occurrence of X-radiation, and ~~having a~~ photodetector layer (9) for detecting the electromagnetic radiation generated by the phosphor layer (3). ~~According to the invention, the~~ The phosphor layer ~~includes~~ (3) ~~consists of~~ ceramic material and the photodetector layer (9) ~~consists of~~ ~~includes~~ organic material. ~~The invention also relates to a~~ A process ~~is further~~ for producing an X-ray detector (1) ~~of this type, including comprising the process steps of producing a phosphor layer (3) from a ceramic material and applying a photodetector layer (9) made from an organic material to the phosphor layer via (3) by means of a spinning, printing or beam/jet process or by sticking it on as a film. It is optionally possible to provide a further process step for polishing the surface of the phosphor layer (3) before applying the photodetector layer (9).~~

FIG. 2